

New York State Department of Transportation

Yellow Flag NB2228W023

By: Ben Colangelo
Flag Date: April 13, 2022

Superseding Information:
This flag supersedes: YF NB2122W039

Structure Information

BIN: 1065318
Feature Carried: 278I278IX2M23027
Feature Crossed: 6TH AVENUE
Orientation: 8 - NORTHWEST
Region: 11 - NEW YORK CITY
County: KINGS
Political Unit: City of NEW YORK
Approximate Year Built: 1962
Posted Load Matches Inventory : Yes
Bridge Load Posting (Tons) : Not Posted for Load
Primary Owner: New York State Department of Transportation
Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party
Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder
This Bridge is not a Ramp
Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.
Date: April 13, 2022 1:15:00 PM
Of: NYSDOT Region 11

Signature Information

Signature: Ben Colangelo, P.E. 068498
Date: June 08, 2022
Reviewed By: Robert Kemp
Date: June 08, 2022

Attachments: 7

Flagged Elements

| Parent Element | Element | Total Quantity | Unit |
|--------------------------|------------------------------|----------------|------|
| Span Number : 256 | | | |
| | 107 - Steel Open Girder/Beam | 976 | ft |
| | PR831 - Steel Beam End | 40 | each |

Flagged Condition Description

This Yellow Flag No. NB2228W023 supersedes Yellow Flag No. NB2122W039.

Location: Span 256 G4 at Pier 256

Description: The web of the girder at the upper cope has a 1-3/4" long diagonal crack that extends into a 3" L x 1" W corrosion hole. The lower web above the bottom flange angle vertical leg has a 1" L x 1/2" W diameter corrosion hole. (Photos 3, 4 & 5).

There has been no significant change since previous inspection.

The affected member Girder G4 is a load path redundant built-up steel girder consisting of varying web depth x 3/8" thick and two equal leg angles (L 5" x 5" x 1/2") for the top and bottom flanges (Photo 2). The spacing between Girder G3 and G4 is 6'-11" on center and 3'-9" on center from G5 (Photo 1).

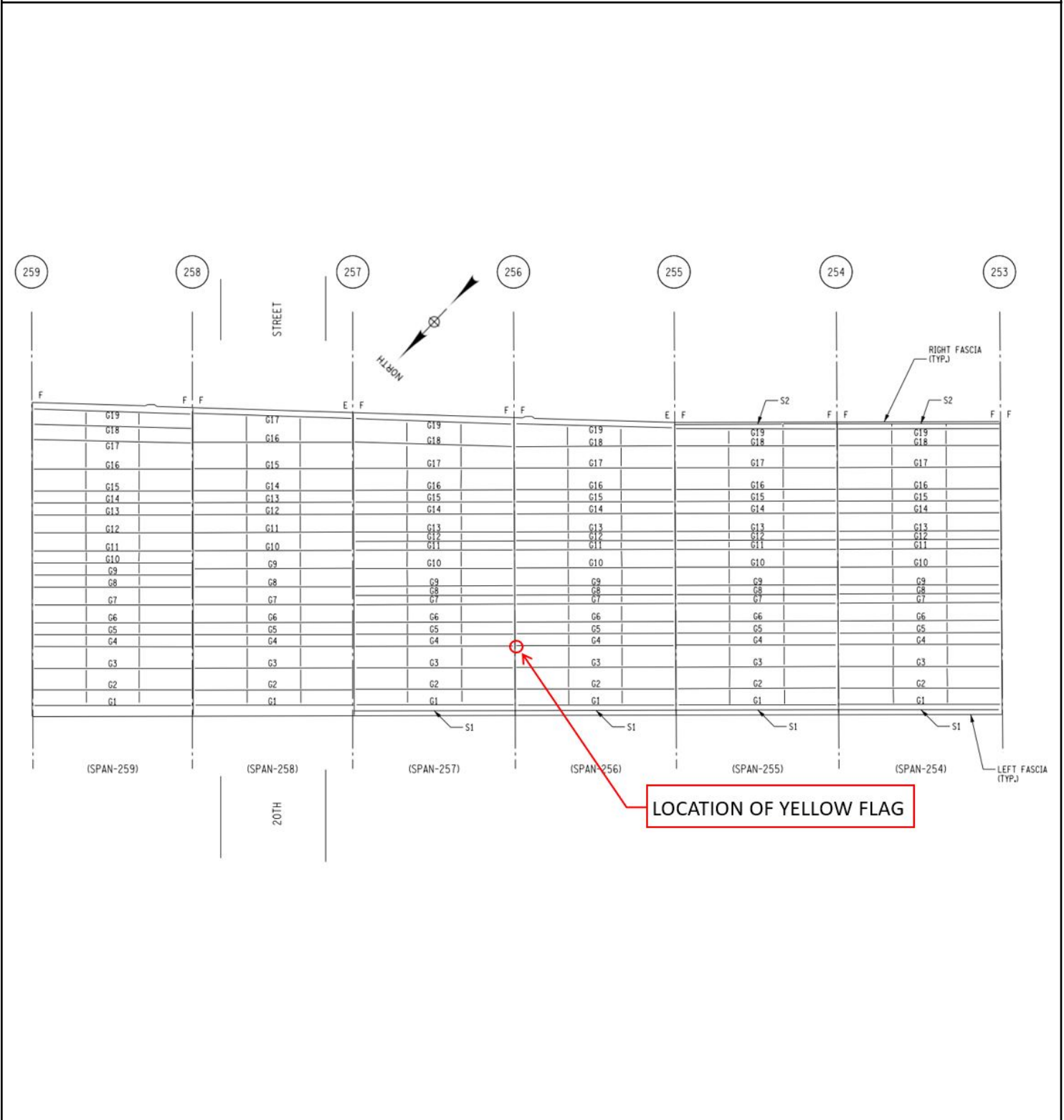
Notes:

1. No deformation was observed in any part of Girder G4 connection to Pier 256 cap beam.
2. The adjacent Girder G3 (left side) has 1/8"-3/16" section loss at the left side web x 24" H x 5" W. Girder G5 (right side) has repair plates at the web with moderate corrosion.
3. Left lane closure at 3rd Avenue Out-Bound (Verrazano Bridge) between 20th and 21st Streets, and a 35' bucket truck are required to access this location.

Flag Photographs

Photo Number: 1

Photo Filename: FRAMING PLAN.JPG



Attachment Description: BIN 1065318, Framing Plan, Spans 254 -259

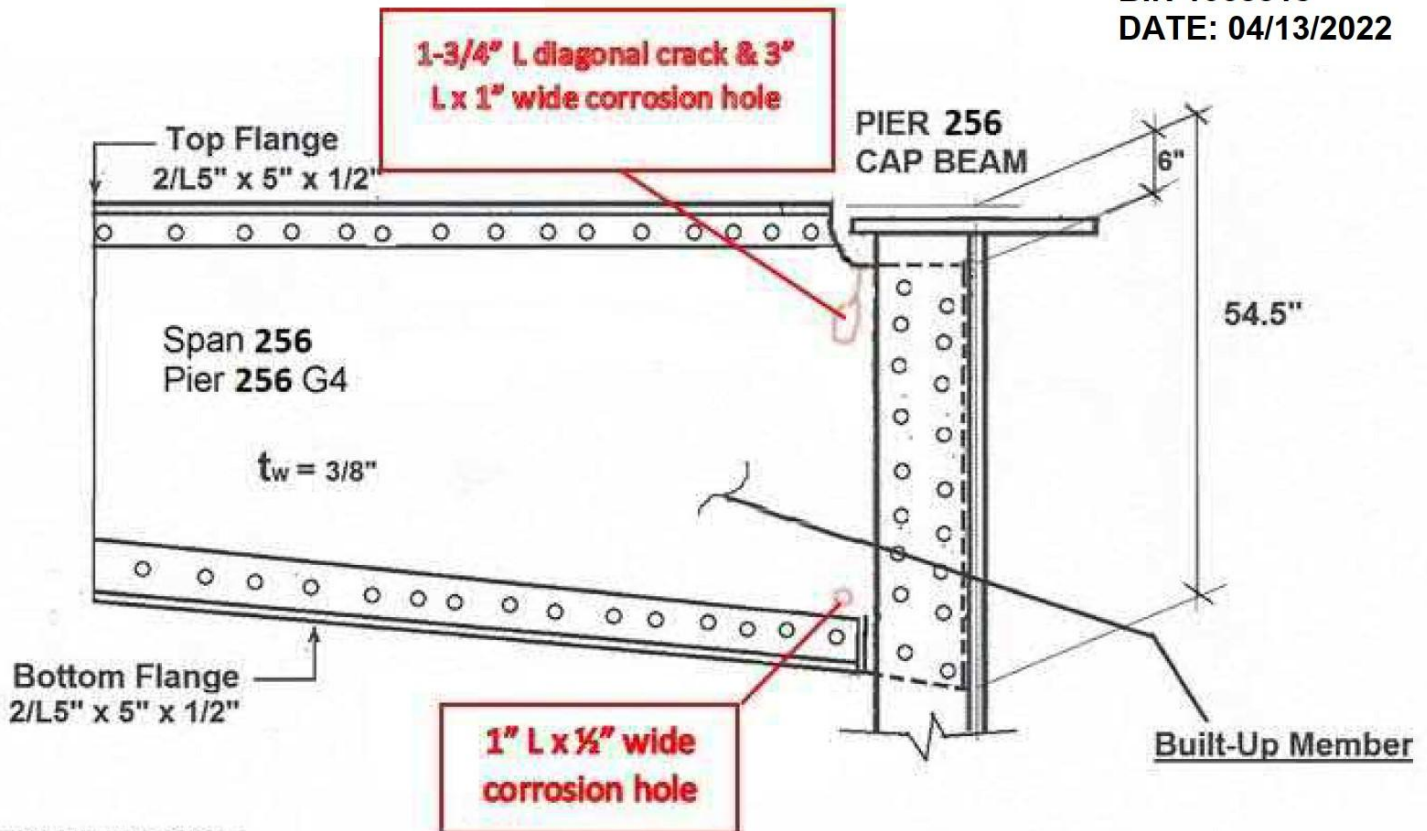
Photo Number: 2

Photo Filename: YELLOW FLAG SKETCH.jpg

YELLOW FLAG NB2228W023

BIN 1065318

DATE: 04/13/2022

**Built-Up Member Properties**

Vary depth web: 54.5" b-to-b Ls @ Piers 255 and 256 and 33" @ midspan

Web thickness = 3/8"

Bottom and Top Flanges are two equal leg angles L 5" x 5" x 1/2"

Span 256, Girder G4 at Pier 256
Elevation (Right)

N.T.S.

Attachment Description: Sketch of G4 at Pier 256

Photo Number: 3

Photo Filename: Photo 1-Edit JF.jpg



Attachment Description: Span 256 G4 at Pier 256 – General framing plan of flagged location. Looking End.

Photo Number: 4

Photo Filename: Photo 2-Edit JF.jpg



Attachment Description: Span 256 G4 at Pier 256 – General view of flagged location. Looking End Right.

Photo Number: 5

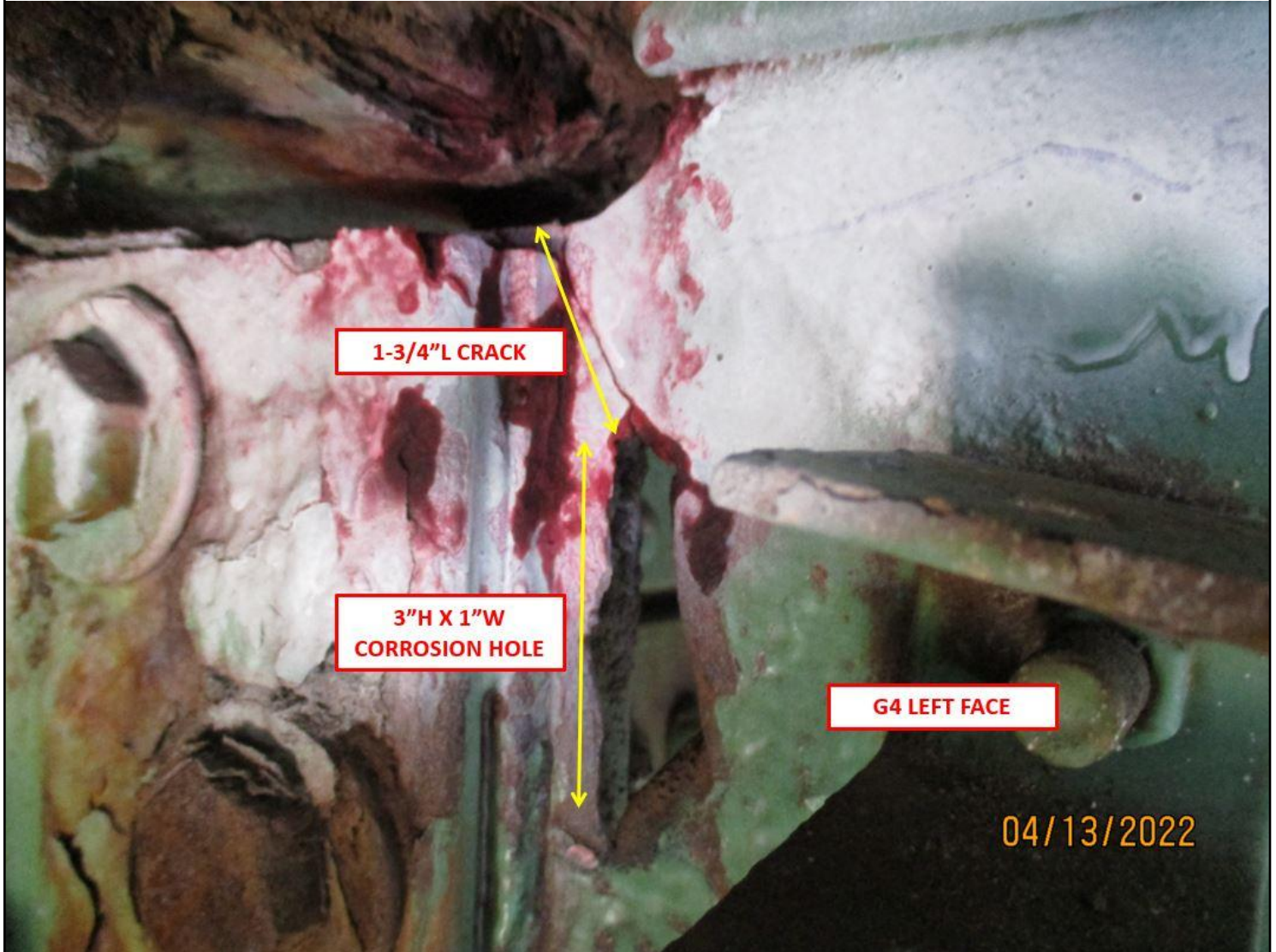
Photo Filename: 318-3936.JPG



Attachment Description: Span 256 G4 at Pier 256 – Close up view of 1-3/4" long diagonal crack at upper cope and 3" H x 1" W corrosion hole at end of crack before dye test. Looking Right.

Photo Number: 6

Photo Filename: 318-3961.JPG



Attachment Description: Span 256 G4 at Pier 256 – Close up view of 1-3/4" long diagonal crack at upper cope and 3" H x 1" W corrosion hole at end of crack after dye test. Looking Right.

Photo Number: 7

Photo Filename: 318-3924.JPG



Attachment Description: Span 256 G4 at Pier 256 – Close up view of 1" long x 1/2" wide corrosion hole at lower web above bottom flange angle. Looking Left.